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MEMORIU ȘTIINȚIFIC
Drd. ROMAN N. (ICHIM) Camelia Elisabeta

Studii de doctorat

Perioada: 2020 - 2025
Conducător științific: Prof.dr.ing. Prof.dr.ing. Daniel DUPLEAC
Domeniu: Inginerie Energetică
Titlul tezei de doctorat: *CONTRIBUȚII LA EVALUAREA TRANSPORTULUI ȘI COMPORTĂRII RADIONUCLIZILOR PRIN BARIERE INGINEREȘTI ALE INSTALAȚIILOR DE DEPOZITARE DEȘEURI RADIOACTIVE*

Activitate științifică

A. Lista de lucrări științifice (articole în reviste sau volume)

1. **C. Ichim** , C. Bucur , I. Florea, S. Laliu, D. Dupleac, *„Sorption isotherms of ^{63}Ni on cementitious engineered barriers of a radioactive waste disposal facility”,* U.P.B. Scientific Bulletin, Series B, Vol. 87, Issues. 4, 2025, ISSN 1454-2331, pp. 193-206.
2. I. C. Florea, C. M. Bucur, C. E. Diaconescu, E. A. Florea, **C. E. Ichim**, *„Analysis of the hydration process of CEM II/B-M composite cement”*, Journal of Science and Arts, Vol. 24, Issue 3, 2024.
3. **C. Ichim**, C. Bucur, M. Olteanu, „ *Ni-63 uptake on CEM I hardened cement paste – preliminary experimental results*”, INE SCIENTIFIC WORKING DOCUMENTS 07, ISSN: 2701-262X, DOI: 10.5445/IR/1000173343, 2024.
4. **C. Ichim**, C. Bucur, M. Olteanu, I. Florea, *„Effect of organics and cement degradation on ^{63}Ni solubility in cement pore waters”*, Journal of Nuclear Research and Development (JNRD), nr. 25, mai 2023.
5. C. M. Bucur, **C. Ichim**, I. Florea, C. Diaconescu, *„Cementitious Materials Characterisation by Inductively Coupled Plasma Emission Spectroscopy,”* Journal of Nuclear Research and Development, nr. 26, 2023.

B. Participări la conferințe/workshop-uri

1. **C. Ichim**, C. Bucur, S. Laliu, C. Manolescu, *„Uptake of ^{63}Ni onto hardened cement paste: effect of iron and organic molecules*”, The 15th Biennial International Conference on Sustainable Development through Nuclear Research and Education, Pitești, România, 29-31 May 2024 .
2. C. Bucur, **C. Ichim**, M. Dianu, C. Diaconescu, A. Stafie, V. Toboşaru *„Measurement of C-14 in Spent Molecular Sieve and Metallic Waste”*, The 15th Biennial International Conference on Sustainable Development through Nuclear Research and Education, , 2024.
3. S. Laliu, C. Bucur, **C. Ichim**, C. Manolescu, *„Current Status of Geological Disposal Programme and a Review of the Potential Candidate Sites in Romania*”, The 15th Biennial International Conference on Sustainable Development through Nuclear Research and Education, Pitești, România, 29-31 May 2024.
4. **C. Ichim**, C. Bucur, I. Florea, D. Dupleac, *„Formate uptake in cementitious systems*”, 6th International Workshop on Mechanisms and Modelling of Waste/ Cement Interactions, Praga, Cehia, 2023.

5. I. Florea, C. Diaconescu, **C. Ichim**, I. Prisecaru *„Modelling of Cement Hydration using PHREEQC Code"*, The 14th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești, România, 2022.

6. S. Laliu, C. Bucur, **C. Ichim**, Daniela Rotaru, *„Site selection criteria for the deep geological repository in Romania"*, The 14th Annual International Conference on Sustainable Development through Nuclear Research and Education, May 2022, (sesiune poster)

7. C. Diaconescu, M. Mihalache, I. Florea, **C. Ichim**, *„Efficiency Calibration Methods of GeHP Detector for Gamma Ray Measurements from Solid Radioactive Waste„*, The 13th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești, România, 2021.

8. M. Olteanu, C. Bucur, **C. Ichim**, *„Study of technetium sorption on pure clay mineral"*, The 13th Annual International Conference on Sustainable Development through Nuclear Research and Education, Pitești, România, 2021.

C. Proiecte de cercetare științifică

1. HARPERS - " HARmonized PracticEs, Regulations and Standards in waste management and decommissioning ", **1 iunie 2022 – 1 iulie 2025**, HORIZON-EURATOM, Grant agreement nr. 101060028.

2. EURAD – European Joint Programme on Radioactive Waste Management, perioada: **1 iulie 2019 – 1 iulie 2024**, Horizon 2020, Grant agreement nr. CE-847593.

   - CORI - "Cement Organics Radionuclide Interaction",

   - ROUTES - "Waste Management routes in Europe from cradle to grave".

3. PREDIS - "PRE-DISposal management of radioactive waste", **1 septembrie 2020 – 30 august 2024,** Horizon 2020, Grant agreement nr. CE-945098.

4. NEA-OECD HIP - "Horonobe International Joint Project", **februarie 2023 - martie 2029, proiect sub egida NEA-OECD,** participare in kind.

5. EURAD-2 – European Partnership on Radioactive Waste Management, perioada **1 octombrie 2024 – 30 septembrie 2029,** Horizon 2020, Grant agreement nr. CE-101166718:

   - Pachet de lucru SUDOKU - "Near-surface disposal optimisation based on knowledge and understanding",

   - Pachet de lucru STREAM - "Sustainable treatment and immobilisation of challenging waste,

   - Pachet de lucru L'OPERA - "Long-term performance of waste matrices".

Student-doctorand

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